



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.								
10/569,839	02/08/2007	Seung-Jong Seh	A4-219 US	8470								
<div>7590 Stephen Z Weiss Molex Incorporated 2222 Wellington Court Lisle, IL 60532</div>			<div>EXAMINER HAMMOND, BRIGGITTE R</div> <table border="1"><thead><tr><th>ART UNIT</th><th>PAPER NUMBER</th></tr></thead><tbody><tr><td>2833</td><td></td></tr></tbody></table> <table border="1"><thead><tr><th>MAIL DATE</th><th>DELIVERY MODE</th></tr></thead><tbody><tr><td>09/25/2007</td><td>PAPER</td></tr></tbody></table>		ART UNIT	PAPER NUMBER	2833		MAIL DATE	DELIVERY MODE	09/25/2007	PAPER
ART UNIT	PAPER NUMBER											
2833												
MAIL DATE	DELIVERY MODE											
09/25/2007	PAPER											

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/569,839

**Applicant(s)**

SEH ET AL.

**Examiner**

Brigitte R. Hammond

**Art Unit**

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☐ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 2/24/06 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                               | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                      | 5) <input type="checkbox"/> Notice of Informal Patent Application                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Kameda 2003/0119348 5,167,516. Regarding claims 1 and 9, Kameda discloses an electrical connector for mating with a complementary connecting device having a mating portion, comprising: a shell 30 having an internal cavity and a front opening for receiving the mating portion of the complementary connecting device inserted into the cavity, a housing 20 mounted in at least a rear portion of the shell and having a mating portion extending forwardly into the cavity; and a shutter 11 slidably mounted in the internal cavity of the shell and formed with a passage for receiving the forwardly extending mating portion of the housing therethrough, whereby when the mating portion of the complementary connecting device is inserted into the cavity through the front opening in the shell, the shutter is slidably pushed rearwardly from a forward position to a rear position whereat the mating portion of the housing passes through the passage in the shutter for engaging the mating portion of the complementary connecting device.

Regarding claims 2 and 10, Kameda discloses spring means 23 for biasing the shutter toward its forward position.

Regarding claims 3 and 11, Kameda discloses said spring means comprises a coil spring extending in a direction between the housing and the front opening in the shell.

Regarding claims 4 and 12, Kameda discloses said shutter is elongated, and including a pair of said coil springs at opposite ends of the shutter.

Regarding claims 6 and 13, Kameda discloses said shutter includes a rearwardly extending post 13 projecting into a front end of the coil spring.

Regarding claim 7, Kameda discloses front-to-rear interengaging guide means 14 between the shell and the shutter.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5, 14 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Kameda in view of Yamaguch et al. 6,942,503.

Kameda discloses the invention substantially as claimed except for the shell being metal shell having a grounding portion for connection to the printed circuit board.

However, metal shells are well known in the art as evidenced by Yamaguch et al.

Art Unit: 2833

Yamaguch et al. discloses a metal shell 14. it would have been obvious to one of ordinary skill to modify Kameda by providing a metal shel for grounding as taught by Yamaguch et al. a housing mounted in at least a rear portion of the shell and having a through hole. AAPA does not disclose a shutter slidably mounted in the internal cavity of the shell for movement between a forward position substantially closing the front opening of the cavity and a rear position; and a metal spring for biasing the shutter toward its forward position, the metal spring extending through the through hole in the housing and into engagement with the metal shell.

Regarding claim 15, Kameda discloses the spring is a coil spring extending in a front-to-rear direction, with a rear end of the coil spring extending through the through hole in the housing and into engagement with a rear portion of the metal shell (as modified).

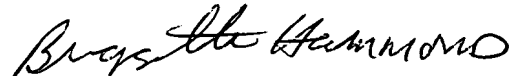
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brigitte R. Hammond whose telephone number is 571-272-2006. The examiner can normally be reached on Mon.-Thurs. and Alternate Fridays from 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2833

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Brigitte R. Hammond  
Primary Examiner  
Art Unit 2833

September 17, 2007